



#	ID	Title	Authors (Bold = Registered participant)	Track	Presentation Format
1	1	Enhancing Interaction with External Stakeholders in Program Management	Svante Gunnarsson , Anna Fahlgren and Per Fagrell	CDIO Implementation	Podium
2	2	Continual Improvement in CDIO: Enhancing Faculty Competency in Reflective Practice	Sin Moh Cheah	Advances in CDIO	Podium
3	3	Self-Efficacy and Study Burnout among IT Students: Challenges and Potentials	Miitta Järvinen , Janne Roslöf , Joni Lämsä , Raija Hämäläinen and Lauri Kettunen	Engineering Education Research	Podium
4	6	Sustainable Development in Engineering Education	Taru Konst, Juha Kontio and Piia Nurmi	CDIO Implementation	Podium
5	7	Covid-19 Forced Remote Teaching and University Education after It	Emiel van Puffelen , Tim Stevens , Kazem Banihashem , Harm Biemans , Omid Noorzi , Nienke Raeven and Perry den Brok	Engineering Education Research	Podium
6	8	Finding Solutions to Digital Inequality in a Blended Learning Environment	Laura Leslie , Darren Campbell and Rebecca Broadbent	Engineering Education Research	Podium
7	9	Sustainable Design and Product Death	Ahmed Tamkin Butt	CDIO Implementation	Podium
8	10	Forming 'Ba' for Enhancing Online Communication Skills by CDIO Approach	Masaru Kawahara and Yasuhiro Fukuzawa	CDIO Implementation	Podium (online)
9	11	CDIO for Education for Sustainable Development Using Common Core Curriculum	Sin Moh Cheah , Lee Yee Lim and Yunn Chyi Chao	CDIO Implementation	Podium
10	12	Developing Students' Generic Skills Based on Objective Evaluation	Kuniaki Yajima , Koji Kawasaki , Yoshikatsu Kubota , Akihiro Wakahara , Naohiro Fukumura , Makoto Nanko and Munehiro Kimura	CDIO Implementation	Podium (online)
11	13	Implementing Portfolio Education Using Objective Data of Generic Skills	Koji Kawasaki , Kuniaki Yajima , Yasuhiro Kashiwaba , Hisashi Takeshima , Takashi Shirane and Yoshikatsu Kubota	CDIO Implementation	Podium (online)
12	15	Making Good Challenges Great - Engaging External Parties in CBL Activities	Charlotte, A. Norrman , Cia Lundvall , Karl Eldebo , Simon Boierts and Frans G. Stel	Engineering Education Research	Podium
13	16	Introduction to Next-Generation Engineering: Being Human in the Information Society	Jenni Virtaluoto , Janne Roslöf , Anne Pitkänen-Huhta and Lauri Kettunen	CDIO Implementation	Podium
14	20	Improving Teaching of Self-Directed Learning via Teacher Modelling	Yunyi Wong and Sin Moh Cheah	CDIO Implementation	Podium
15	21	Higher Education Thesis Supervision - a New, Hybrid Supervisory Model	Anders Adlemo	CDIO Implementation	Podium
16	22	Local Resilience Strategies for COVID19 – a PBL Engineering Case Study	Ann-Kristin Winkens and Carmen Leicht-Scholten	CDIO Implementation	Podium
17	23	The CDIO Syllabus 3.0 - An Updated Statement of Goals	Johan Malmqvist , Ulrika Lundqvist , Anders Rosen , Kristina Edström , Rajnish Gupta , Helene Leong , Sin Moh Cheah , Jens Bennedsen , Ron Hugo , Aldert Kamp , Ola Leifler , Svante Gunnarsson , Janne Roslöf and Daniel Spooner	Advances in CDIO	Podium
18	25	Quality Assurance in Electronics-ICT Engineering Education	Jo Verhaevert	CDIO Implementation	Poster
19	26	A CDIO-Oriented Technology Product Development Course for Electronic Engineering Students	Liviu Gal , Gabriela Dorfman Furman and Zeev Weissman	CDIO Implementation	Podium
20	28	Systems Thinking in a Mechanical Engineering Program	Björn Oskarsson , Jonas Hallström and Maria Hüge-Brodin	CDIO Implementation	Podium
21	29	Simulation-Based Math in the Faculty of Engineering and Business	Heidi M. Niskanen and Marko Kortetmäki	CDIO Implementation	Podium
22	31	Challenges and Opportunities When Integrating Videos in Course Design	Malin Wiger , Henrik Gillström and Uni Sallnäs	CDIO Implementation	Podium



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23	32	CDIO-Based Syllabus Design in the Context of Teacher Education	<i>Bang Nguyen, Phu Hoang, Yen Tran, Vinh Nguyen and Duc Hoang</i>	CDIO Implementation	Podium
24	34	Just-in-Time Learning Product Design and Development through Gamification	<i>Marcus Vinicius Pereira Pessoa</i>	CDIO Implementation	Podium
25	35	Curriculum Framework for Project Management Competences – Case TUAS	<i>Mari Ketola and Juha Kontio</i>	CDIO Implementation	Poster
26	36	Healthy Challenging Design Education for Engineers	<i>Remon Rooij and Sylvia Mooij</i>	Engineering Education Research	Podium
27	37	Improvement of Facilitation and Management Skills by Whole Systems Approach	<i>Hiromasa Ohnishi</i>	CDIO Implementation	Podium (online)
28	38	Addressing Challenges of Hybrid Capstone Projects in a Pandemic Environment	<i>Jerker Bjorkqvist, Anna Sell and Dragos Truscan</i>	CDIO Implementation	Podium
29	39	Visualizing the Effectiveness of Cross-Course-Typed PBL on Generic Skills	<i>Jun Suzuki, Koji Kawasaki, Kuniaki Yajima, Shinji Chiba, Hisashi Takeshima and Yoshikatsu Kubota</i>	CDIO Implementation	Podium (online)
30	41	Work-Based Learning in Computer Science Education - Opportunities and Limitations	<i>Daniel Einarson, Fredrik Frisk and Kamilla Klonowska</i>	CDIO Implementation	Podium
31	42	Evaluation of Immersive Project-Based Learning Experiences	<i>Tiia Rүүtman, Emlyn D. Q. Witt, Theophilus O. O. Olowa, Taija Puolitaival and Marco Bragadin</i>	CDIO Implementation	Podium
32	43	How to Make Good Teachers Great in Challenge-Based Learning	<i>Karl Eldebo, Cia Lundvall, Charlotte, A. Norrman and Madeleine Larsson</i>	Engineering Education Research	Podium
33	44	Characterisation of Effective Delivery and Supervision of Capstone Projects	<i>Tony Topping and Matt Murphy</i>	CDIO Implementation	Podium
34	47	Engineering Students' Interaction with Industry Representatives	<i>Martina Berglund, Peter Cronemyr, Magdalena Smeds and Promporn Wangwacharakul</i>	CDIO Implementation	Podium
35	48	Improving Teamwork with a Rotating Leadership Model	<i>Sally Ng and Benjamin Tan</i>	CDIO Implementation	Podium
36	49	The Design of Software Engineering Courses for Future Remote Work	<i>Marijana Teljega and Daniel Einarson</i>	CDIO Implementation	Podium
37	50	Connecting across Differences to Develop Engineering Solutions to Sustainability Challenges	<i>Clare Newstead and Yvonne Reinwald</i>	CDIO Implementation	Podium
38	51	Collegial Learning During the Pandemic: Realized Activities and Lessons Learnt	<i>Anna Rosengren, Anders Adlemo, Amjad Zaki Khalil Al-Musaed, Patrick Conway, Åsa Hansen, Leif-Magnus Jensen, Jakob Olofsson, Marisol Rico Cortez and Matilda Svensson Duric</i>	CDIO Implementation	Podium
39	52	Do Engineering Students from Vocational and Academic Backgrounds Think Differently ?	<i>Gareth Thomson and Mark Prince</i>	Engineering Education Research	Podium
40	53	Do Academic Recruitment Policies under Represent Teaching and Learning Competencies?	<i>Gareth Thomson and Klara Kovesi</i>	Engineering Education Research	Podium
41	54	Learning Mechatronics Using Digital Live Labs	<i>Veronica Olesen, Christian Stöhr, Mikael Enelund and Johan Malmqvist</i>	Engineering Education Research	Podium
42	57	Design Process Reporting Tool for Mapping and Performance Optimization	<i>Geza Fischl and Bengt Erland Erlandsson</i>	Engineering Education Research	Podium
43	58	7 Year Iterative Improvements in Laboratory Work – Constructive Alignment	<i>Asdis Helgadóttir</i>	Engineering Education Research	Podium
44	59	Grading Homework as Formative Assignments – the Solution to Cheating?	<i>Asdis Helgadóttir</i>	Engineering Education Research	Podium



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45	61	Discover Calculus through Original 3D Animated Sitcom “Ratventures”	Yen Ping Chua , Ling Chen Fu, Eric Goh, Ming Ming Boo and Pei Chin Lim	Engineering Education Research	Podium
46	65	CDIO Applied in the Brazilian Engineering Education Law Implementation	Andre Luiz Tenorio Rezende and Ricardo Teixeira da Costa Neto	CDIO Implementation	Podium
47	67	School-wide Strategies for Assessment of Learning Outcomes During COVID-19 Pandemic	Ser Khoon Toh , Chow Leong Chia , Safura Anwar, Andy Ngai and Hua Joo Tan	CDIO Implementation	Podium
48	68	Passion and Choices in Engineering Education through Multiple Pathways	Ser Khoon Toh , Chow Leong Chia , Chung Meng Lau and Hua Joo Tan	CDIO Implementation	Podium
49	69	A School-wide Ecosystem towards Nurturing Students to Become Self-Directed Learners	Ser Khoon Toh , Hua Joo Tan, Safura Anwar and Chow Leong Chia	CDIO Implementation	Podium
50	70	Supporting Engineering Students Learning Mathematical Induction with an Online Tutorial	Mika Gabel , Vladimir Bar Lukianov and Tamar Margalit	Engineering Education Research	Podium
51	72	International Professional Skills: Interdisciplinary Project Work	Thomas Mejtoft , Helen Cripps and Christopher Blöcker	CDIO Implementation	Podium
52	73	Engineering Students' Engagement in a Hybrid Learning Mode: Comparative Study	Sami Asaad , Hassan Salti and Mohamad Farhat	CDIO Implementation	Podium
53	75	Dual Use of Time: Framework for Understanding Possibilities and Pitfalls	Guttorm Sindre	Engineering Education Research	Podium
54	77	Gender Differences in Attitudes towards Engineering Studies and in Graduates	Asrun Matthiasdottir and Haraldur Auðunsson	Engineering Education Research	Podium
55	81	Closing the Gap between Classroom and Reality through Virtual Bridges	Priscilla Navarro, Linnea Haag, Promptorn Wangwacharakul and Jason Martin	Engineering Education Research	Podium
56	82	Comparing the CDIO Standards with the Work-Integrated Learning Certification	Thomas Lundqvist , Annabella Loconsole, Ingrid Tano and Andreas de Blanche	Advances in CDIO	Podium
57	85	Development of Professional Capabilities in a Challenge Based Learning Environment	Renate Klaassen and Birgit J.E. de Bruin	Engineering Education Research	Podium
58	86	International Accreditation and CDIO Optional Standards Achievement Levels at UCSC	Claudia Martinez-Araneda , Matilde Basso, Marcia Muñoz and Michelle Bizama	CDIO Implementation	Podium
59	87	Surviving and Thriving in First Year - Supporting Student Experience	Kim Johnston and Robyn Paul	CDIO Implementation	Podium
60	88	Implementing Active Learning in First Year Engineering – a Leadership Perspective	Kim Johnston and Mike Potter	CDIO Implementation	Podium
61	91	Solving Real-World Problems in Accounting Industry Using CDIO Framework	Daryl Aw , Ronnie Hoh, Siew Meng Yew, Germaine Lim and Seow Hui Ho	CDIO Implementation	Podium
62	93	Maximising the Performance of Multi-Diverse Design Teams	Bas Flipsen and Stefan Persaud	CDIO Implementation	Podium
63	94	Exploring Advanced Projects as Meeting-Points between Students and Industry	Fredrik Frisk , Kamilla Klonowska and Daniel Einarson	CDIO Implementation	Podium
64	100	Project Based Learning and Reflection in a Manufacturing Environment	Marijn Zwier , Eric Lutters and Lisa Gommer	CDIO Implementation	Podium
65	101	Integration of Learning and Research in a Multi-Perspective Learning Factory	Eric Lutters , Janneke Massa, Roy Damgrave, Sebastian Thiede and Lisa Gommer	CDIO Implementation	Podium
66	102	Enhancing Students' Competencies by Integrating Multiple Course-Units on Semester Projects	Paulo Maio , Paulo Sousa, Carlos Ferreira and Elsa Gomes	CDIO Implementation	Podium



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67	105	Teaching Design: From Dueling to 'Dualing' Threshold Concepts	Nancy Nelson and Robert Brennan	Engineering Education Research	Podium
68	114	Does a Master's Program in Engineering Require a Final Project?	Haraldur Audunsson , Siegfried Rouvrais , Ralph Rudd , Ragnar Kristjansson and Olivier Matthieu S. Moschetta	Advances in CDIO	Podium
69	115	Rethinking Engineering Internships in Times of Disruptions	Norazrina Muhammad Mustafa, Thijs Willems and Sin Moh Cheah	Engineering Education Research	Podium
70	119	Integrating Gender Equality, Diversity and Equal Conditions in Engineering Education	Marie Magnell , Charlotta Delin , Anders Rosén , Anna Jerbrant , Gunnar Tibert and Carlos Casanueva Perez	Engineering Education Research	Podium
71	121	Peer Review in a Product Development Course – Implementation and Reception	Hanna Jonsson , Elsa Täck , Andreas Eriksson and Erik Hulthen	CDIO Implementation	Podium
72	122	If You Please, Draw Me a Resilient Curriculum!	Siegfried Rouvrais , Inggriani Liem , Haraldur Audunsson and Cecile Gerwel Proches	CDIO Implementation	Podium
73	135	Applying Active Learning in the Electromagnetism Class: A Five-Year Assessment	Jairo A. Hurtado , Manuel R. Perez and Juan M. Cruz	CDIO Implementation	Poster
74	137	Aligning Stakeholder Needs with Program Requirements Using a Multi-Stakeholder Survey	Marta Ormazábal , Nicolás Serrano , Carmen C. Blanco , Fernando Carazo , Javier Aldazábal and Samuel Azasu	CDIO Implementation	Podium
75	144	Analysis of Students' Performance in Capstone Projects According to the..	Ramon Bragos , Guido Charosky , Louay Aoun , Sandra Bermejo and Josep Pegueroles	CDIO Implementation	Podium
76	145	Academic Development Support for Implementing CDIO	Kärt Kase , Tiina Kasuk , Tiia Rüttnann , Kaimo Sonk , Raivo Sell and Ivar Annus	CDIO Implementation	Podium
77	147	Coaching Practices in Challenge-Based Learning: Characteristics and Practices in Projects	Sonia M. Gomez Puente , Karolina Doulougeri and Miguel Bruns	Engineering Education Research	Podium
78	150	Debate as a Tool in Engineering and Sustainability Education	Abed Alaswad and Sarah Junaid	Engineering Education Research	Podium
79	154	Embracing Failure as an Integral Aspect of Engineering Education	Markéta Foley , Joseph Timothy Foley and Marcel Kyas	Engineering Education Research	Podium
80	156	Evaluation of Students' Performance in CDIO Projects through Blended Learning	Soumya Kanti Manna , Najah Battikh , Anne Nortcliffe and Joseph Camm	CDIO Implementation	Podium
81	167	Nordic Cooperation on Course Development in Emerging Field of Engineering	Bjorn Karlsson , Nils Johansson , Michael Försth , Lars Schiött Sörensen and Anne Simone Dederichs	CDIO Implementation	Podium
82	170	Recycling Programs from Engineering for Students and Their Families	Jairo A. Hurtado , Flor A. Bravo and Gloria I. Mestre	CDIO Implementation	Poster
83	171	Teaching Practical Computer Networking with Limited Resources	Jacky Mallett , Marcel Kyas and Stephan Schiffel	CDIO Implementation	Podium
84	172	Using GitHub Classroom in Teaching Programming	Jens Bennedsen , Till Böttjer and Daniella Tola	CDIO Implementation	Poster
85	174	EDUBOX: A Self-Contained Engineering Learning Environment for Underserved Communities	Alberto Martinetti , Peter Chemweno , Eva de Wit , Joëlle Steendam and Ayat Nashwan	CDIO Implementation	Podium
86	177	University and Continuous Engineering Education - Perspectives on Integrating Students	Carin Rösiö , Madelene Zetterlind , Stefan Brolin and Patrik Cannmo	CDIO Implementation	Podium